

Title (en)
DEVICE FOR DECOUPLING VIBRATIONS BETWEEN TWO SYSTEMS AND THE WORKING MACHINE

Title (de)
VORRICHTUNG ZUR SCHWINGUNGSENTKOPPLUNG ZWISCHEN ZWEI SYSTEMEN UND ARBEITSMASCHINE

Title (fr)
DISPOSITIF DE DÉCOUPLAGE DE VIBRATIONS ENTRE DEUX SYSTÈMES ET ENGIN DE TRAVAIL

Publication
EP 3694732 A1 20200819 (DE)

Application
EP 18829293 A 20181217

Priority
• DE 102017012140 A 20171230
• EP 2018085189 W 20181217

Abstract (en)
[origin: WO2019129519A1] A device together with an associated working machine for decoupling vibrations between two systems (2, 4) in the form of spring-mass vibrators, of which one system (2) is assigned to a movement machine, and the other system (4) is assigned to an operator acting on the movement machine, which system at least partially in the case of travelling movements of the movement machine executes movements about a transverse axis (Q) and in the process subjects vertical movements in the direction of a vertical axis (z) to an absolute vertical speed (vz1,1) which serves as an input variable of open-loop and/or closed-loop control devices which, in order to compensate the vibrations, actuate a damping system (8) of the one system (2) and/or other system (4), characterized in that the respective pitching movement of the other system (4) is sensed by means of at least one rotational speed sensor, the respective measured value (ω_1) of which preferably yields the absolute vertical speed (vz1,1) as an input variable only when amplified by a predefinable factor (L1).

IPC 8 full level
B60G 17/00 (2006.01); **B60G 13/00** (2006.01); **B60G 17/06** (2006.01); **B60G 99/00** (2010.01)

CPC (source: EP US)
B60G 13/00 (2013.01 - EP); **B60G 13/003** (2013.01 - US); **B60G 17/00** (2013.01 - EP); **B60G 17/06** (2013.01 - EP US); **B60G 99/002** (2013.01 - EP US); **F16F 15/002** (2013.01 - EP US); **F16F 15/02** (2013.01 - EP); **F16F 15/022** (2013.01 - US); **B60G 2202/25** (2013.01 - EP US); **B60G 2400/0531** (2013.01 - EP US); **B60G 2400/0532** (2013.01 - EP US); **B60G 2400/252** (2013.01 - EP US); **B60G 2500/10** (2013.01 - EP US); **B60G 2600/172** (2013.01 - EP US); **B62D 33/0604** (2013.01 - EP US); **B62D 33/077** (2013.01 - EP US)

Citation (search report)
See references of WO 2019129519A1

Designated contracting state (EPC)
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Designated extension state (EPC)
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